

BRIAN N. STRANDJORD, PE, CFI, CFEI
Project Engineer
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Mr. Strandjord is a licensed mechanical and electrical professional engineer with an extensive and diverse background. He investigates the origin and cause of fires and explosions, carbon monoxide incidents, and other mechanical and electrical matters. His experience ranges from thermal analysis of individual electronic components and assemblies to the design, implementation, and operation of automation systems for control of HVAC, mechanical, and lighting systems in large facilities. Mr. Strandjord's background also includes extensive, hands-on fabrication and welding experience, including production of commercial and military aircraft components.



EDUCATION

Bachelor of Science in Mechanical Engineering, University of Colorado, 2005

AREAS OF EXPERTISE

Mechanical and Electrical Engineering
 Fire/Explosion Origin & Cause Investigation
 Carbon Monoxide Incident Investigation

CERTIFICATION & LICENSURE

Licensed Professional Engineer in California, Colorado, Florida, Hawaii, Idaho, Kansas, Kentucky, Montana, Nebraska, New Mexico, New York, North Dakota, South Dakota, Utah, and Wyoming
 Certified Fire Investigator (CFI), International Association of Arson Investigators (IAAI)
 Certified Fire and Explosion Investigator (CFEI), National Association of Fire Investigators (NAFI)
 Certified Level 1 Infrared Thermographer
 Certified Weigher License, Colorado Department of Agriculture
 FCC General Radio Telephone Operators License (GROL) with Radar Endorsement
 FCC Extra Class Amateur Radio Operators License

WORK HISTORY

Project Engineer, *AEI Corporation*, 2019-Present
 West Region MEP Division Manager, *Rimkus Consulting Group, Inc.*, 2014-2019
 Project Manager, *PM Services Company*, 2013-2014
 Project Engineer II, *Trane Company*, 2008-2013
 Adjunct Faculty Member, *Metropolitan State College of Denver*, 2007
 Aerospace Welder, *Stanley Aviation*, 2006-2008
 Project Engineer, *Coretec Denver, Inc.*, 2004-2005
 Mechanical Engineer, *Thermal Management, Inc.*, 2003-2004

EXPERIENCE

Mr. Strandjord has investigated failures in a wide range of mechanical and electrical systems, such as consumer products, lithium battery powered equipment, gas and electric appliances, building systems, commercial and industrial machinery, and electrical switchgear. He has conducted site inspections and laboratory examinations to determine the root cause of machine and device failures ranging from equipment breakdown to catastrophic failures, including fires, explosions, and significant injuries. Mr. Strandjord is also

experienced in the investigation of electrical accidents, including shocks and electrocutions. He has provided mechanical and electrical engineering expert witness testimony for matters in both state and federal courts.

AFFILIATIONS

International Association of Arson Investigators (IAAI)
National Association of Fire Investigators (NAFI)

PRESENTATIONS

Commercial Vehicle and Equipment Fires

Oshkosh Corporation – April 2022

SEMINARS & ADDITIONAL TRAINING

Asbestos

Asbestos Awareness Training, Safety Unlimited, Inc. – December 2018

Asbestos Awareness Training, Safety Unlimited, Inc. – February 2017

Asbestos Awareness Training, Safety Unlimited, Inc. – February 2016

HAZMAT & HAZWOPER

DOT Hazmat Materials Transportation, Compliance Solutions Occupational Trainers – December 2019

DOT Security Awareness, Compliance Solutions Occupational Trainers – December 2019

The HAZWOPER Standard, IAAI – March 2016

International Association of Arson Investigators (IAAI)

Critical Evaluation and Testing of Commonly Reported Accidental Causes – June 2019

Fire Protection Systems – June 2019

Postflashover Fires – June 2019

Ethics & Social Media – May 2018

Fire Chemistry – May 2018

Basic Electricity – May 2017

Fundamentals of Residential Building Construction – May 2017

Investigating Natural Gas Systems – May 2017

Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems – May 2017

Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems – May 2017

Residential Electrical Systems – May 2017

Residential Natural Gas Systems – May 2017

Thermometry, Heat, and Heat Transfer – January 2017

Arc Mapping Basics – March 2016

Documenting the Event – March 2016

Electrical Safety – March 2016

Ethics and the Fire Investigator – March 2016

Explosion Dynamics – March 2016

Fire Investigator Scene Safety – March 2016

Introduction to Fire Dynamics and Modeling – March 2016

Investigating Fatal Fires – March 2016

Investigating Motor Vehicle Fires – March 2016

NFPA 1033 and Your Career – March 2016

The Practical Application of the Relationship Between NFPA 1033 and NFPA 921 – March 2016

The Scientific Method for Fire and Explosion Investigation – March 2016

Understanding Fire Through the Candle Experiments – March 2016

National Association of Fire Investigators (NAFI)

DOT Hazmat Transportation & Security Awareness, Compliance Solutions Occupational Trainers –

September 2020

Miscellaneous

AFCI Basics Training Course, UL Knowledge Solutions Training – January 2019

Fall Protection Training, Rimkus Consulting Group – July 2017

Investigation of Gas and Electric Appliance Fires, Fire Findings – April 2016

Diaphragm Tanks for VFD Systems, American Society of Plumbing Engineers – March 2016

Prevention and Investigation of Commercial Kitchen Fires, International Code Council – March 2016